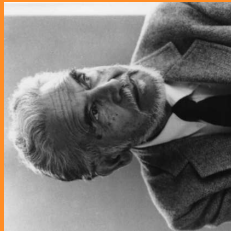


## STEM HEROES



**Albert Baez**  
Born: November 15, 1912, Puebla, Mexico  
Died: March 20, 2007, San Mateo County, CA

Moving on to another impactful inventor is Albert Baez who co-invented an x-ray reflection microscope in 1948. It allows scientists to look at living cells and is still used today.

Celebrate Albert Baez's invention by using cereal boxes and tissue paper to make x-ray tablets/radiographs.

## STEM ACTIVITY

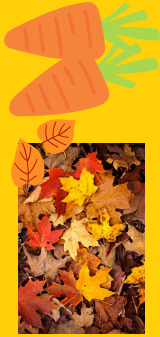


**5 Little Pumpkins Rhyme**

Five little pumpkins sitting on a gate  
The first one said, "Oh my! It's getting late!"  
The second one said, "There are witches in the air!"  
The third one said, "But we don't care!"  
The fourth one said, "Let's run and run and run!"  
The fifth one said, "We're ready for some fun!"  
Then Oo'! went the wind and out went the lights  
And the five little pumpkins rolled out of sight!

## STEM FUN FACTS

**Leaves and carrots are similar.**  
Orange leaves, that is! They both contain **Carotene**, which makes them orange.



On average a pencil can be **sharpened 17 times**, draw a **line 35 miles long** and can write **approximately 45,000 words**.



## STEM ACTIVITY

### CARDBOARD X-RAY RADIOGRAPH



- Cereal Box
- Skeletal print (hand/foot/head)
- scissors
- glue stick
- coloring utensils (paint/crayons/markers)

1. Cut a large rectangle shape from your food box.
2. Create a frame by cutting a smaller rectangle shape from your large rectangle.
3. Cut & paste white tissue paper to your radiograph frame.
4. Cut out and paste your skeletal print to the center of the tissue paper.

## STEM PARTNERS

Resources provided by:



## STEM THEMES

**SEPTEMBER 2022**  
School/Fall/  
Roald Dahl Day (9/13/22)

**OCTOBER 2022**  
National Hispanic Heritage  
Month (9/15-  
10/15/22)/Halloween

## STEM TREATS



- ### Back 2 School Apple Pretzel Snacks
- red food coloring
  - yogurt (apple color)
  - pretzels (apple shape)
  - brown + green mgms (stem/leaf)
1. Add 2-3 drops of red food coloring to yogurt.
  2. Dip your pretzels in red yogurt and chill in fridge/freezer.
  3. Adorn your apple snacks with a brown and a green mgm

## STEM ACTIVITY



- ### Willy Wonka Sensory Bin
- Three-four 1 qt ziplock bag of rice dyed with food coloring
  - pom-poms (asst colors)
  - child-friendly tweezers
- #### WAYS TO PLAY
1. Ask your child to pick their favorite pom-poms
  2. Remove pom-poms based on color
  3. Count the pom-poms up to 5; up to 10; up to 15; up to 20

## What is the San Diego STEM Ecosystem?

The San Diego STEM Ecosystem is a collaborative network of professionals working together to develop and advance initiatives related to STEM learning. One initiative of this group is to help families with young children and early childhood teachers by providing resources (like this newsletter!) to teach STEM concepts to learners from ages 0-8.

## What is STEM?

STEM stands for Science, Technology, Engineering, and Mathematics. STEM is sometimes called STREAM - "R" for reading and "A" for Art. STEM Education focuses on teaching these subject areas in an interconnected and hands-on way that builds children's ability to think scientifically and problem-solve independently.



### Where can I learn more?

You can also visit the Ecosystem website to find local STEM learning opportunities and discover what is happening in our community:

← [www.sdstemecosystem.com](http://www.sdstemecosystem.com)



Catch the Daily Dose of STEM on Instagram every week for tips and activity ideas for young STEM learners:

← @sdstemecosystem

See the instructions below for how to turn this newsletter into a booklet.  
Even better, let your children do the cutting and folding for an extra STEM activity!

